

FIG.1

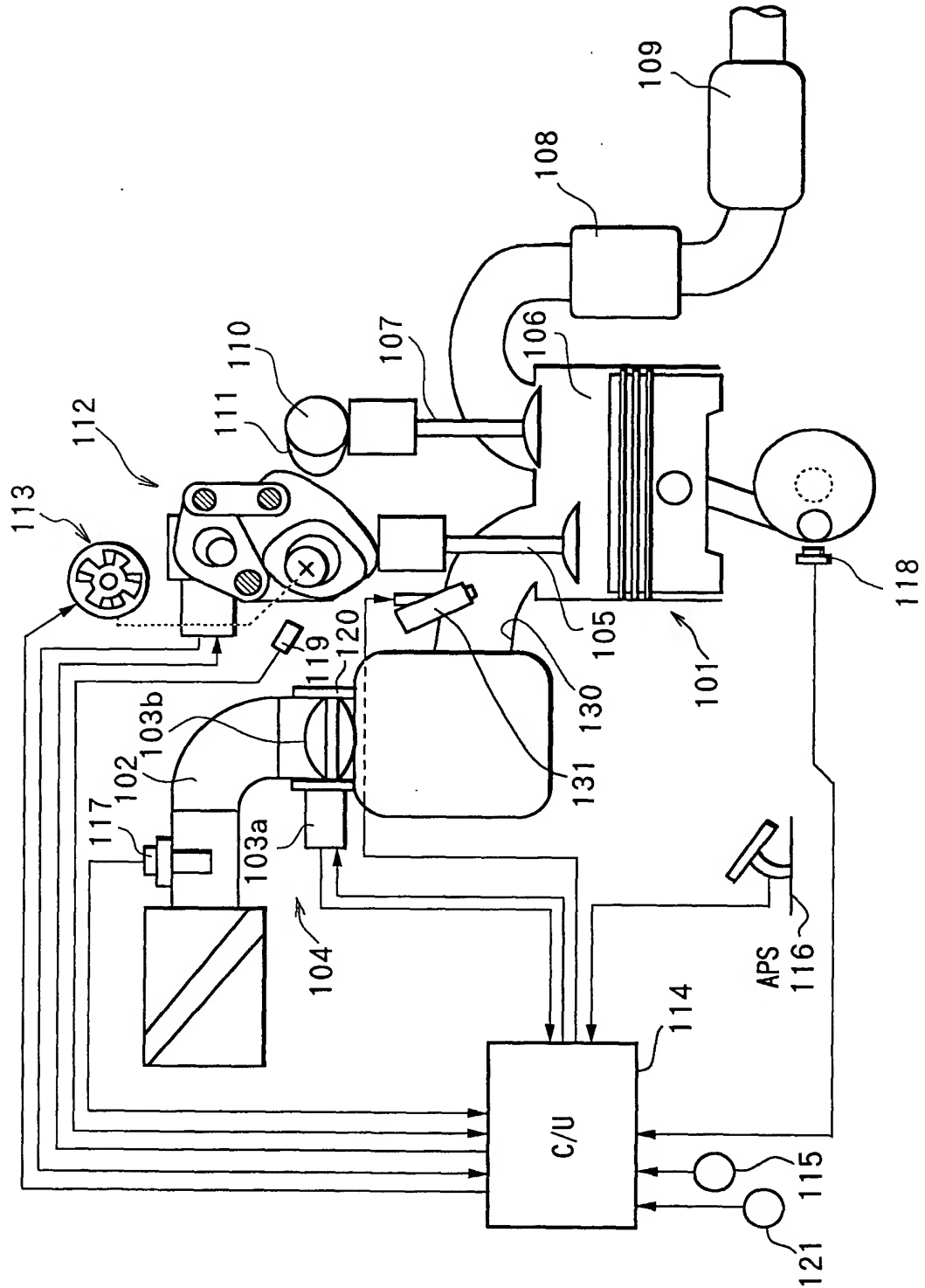


FIG.2

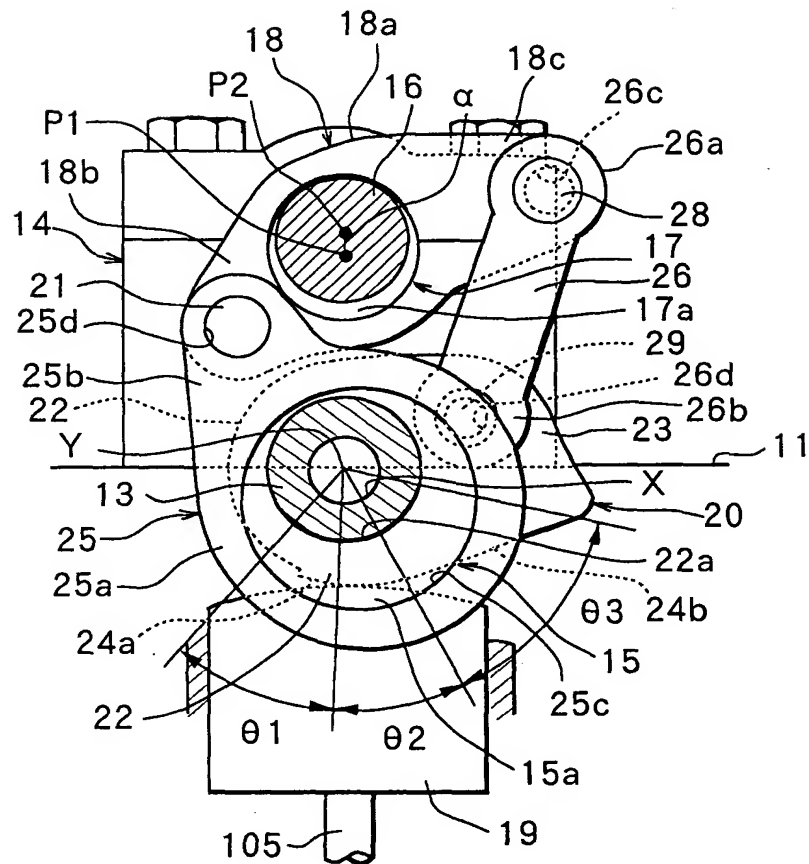


FIG.4

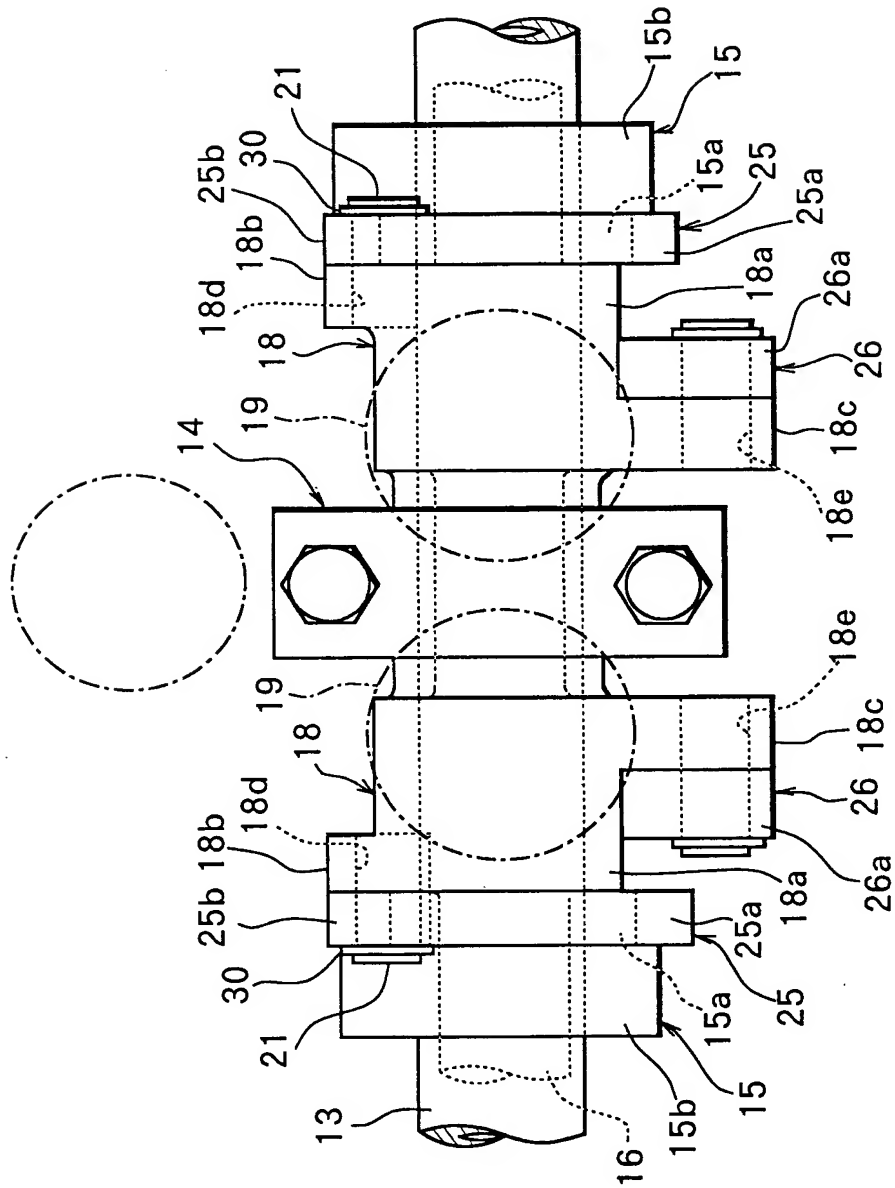


FIG.5

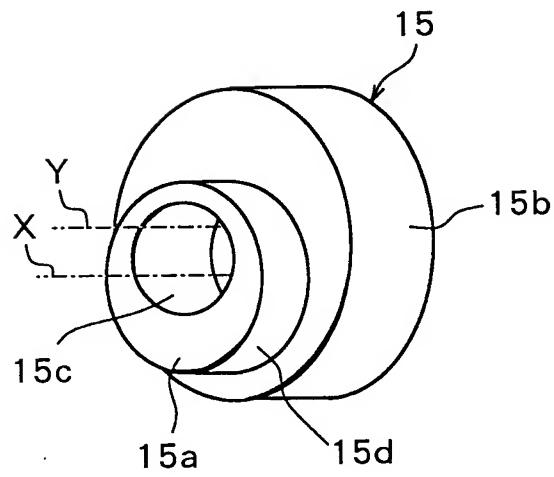


FIG.6

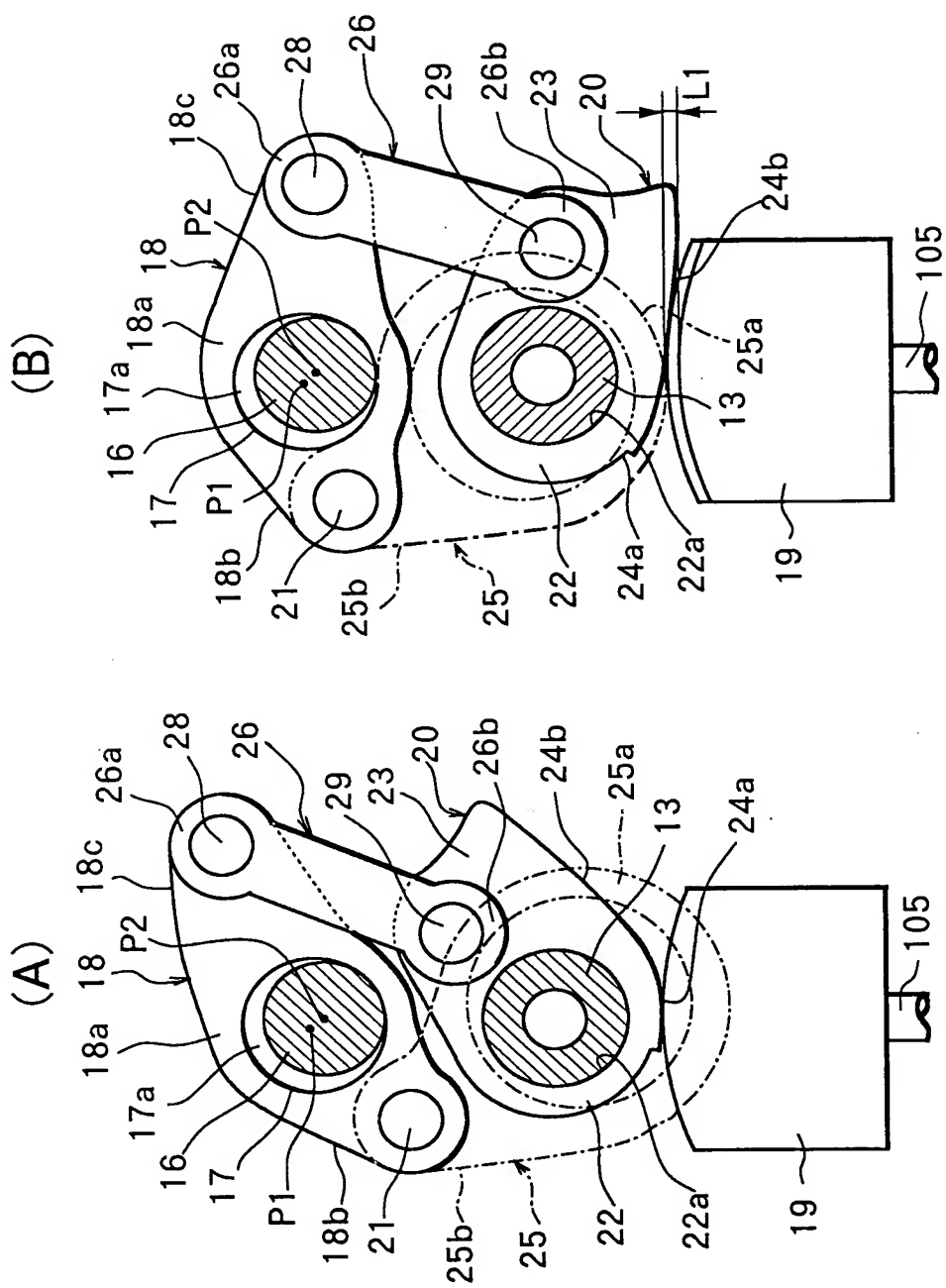


FIG. 7

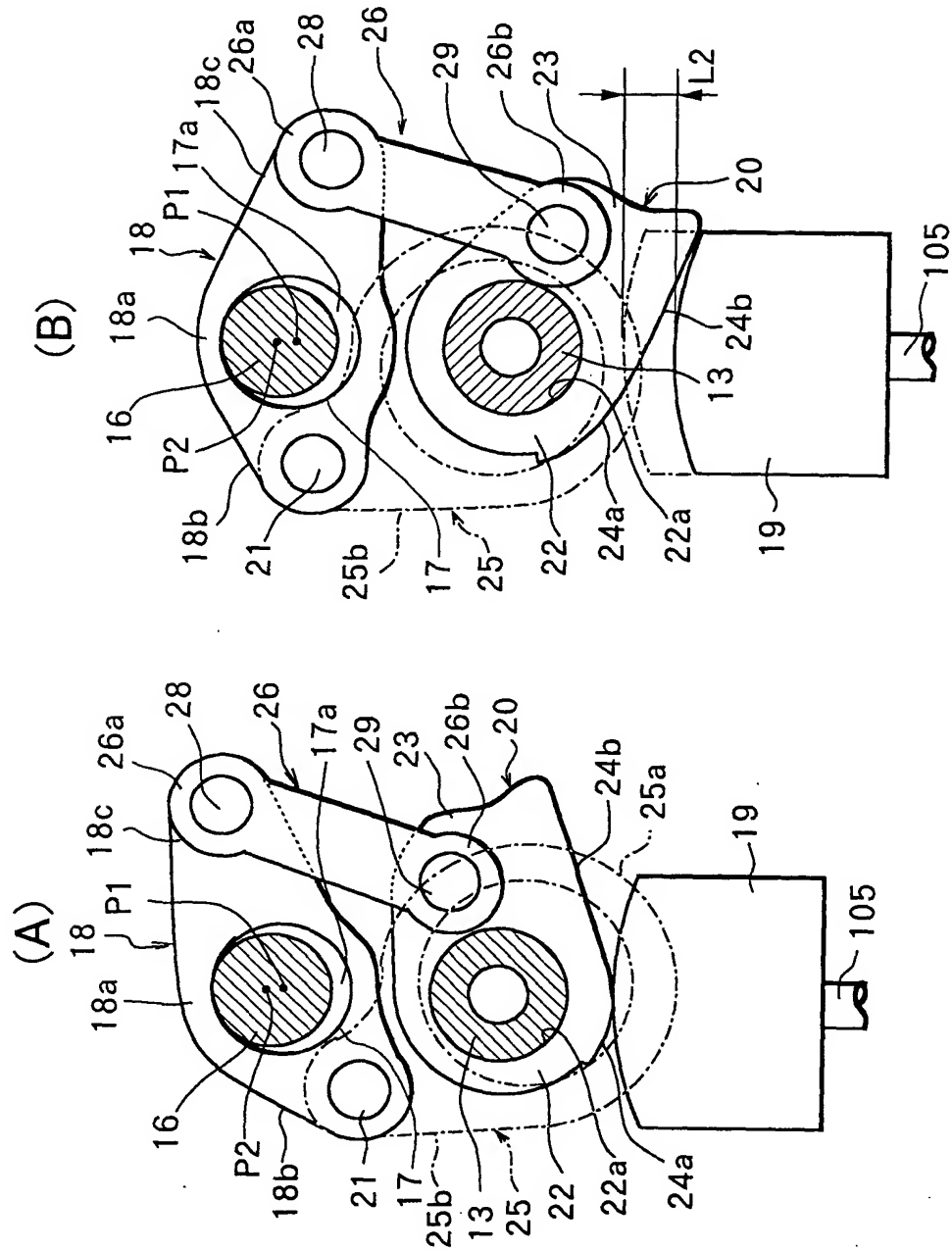


FIG.8

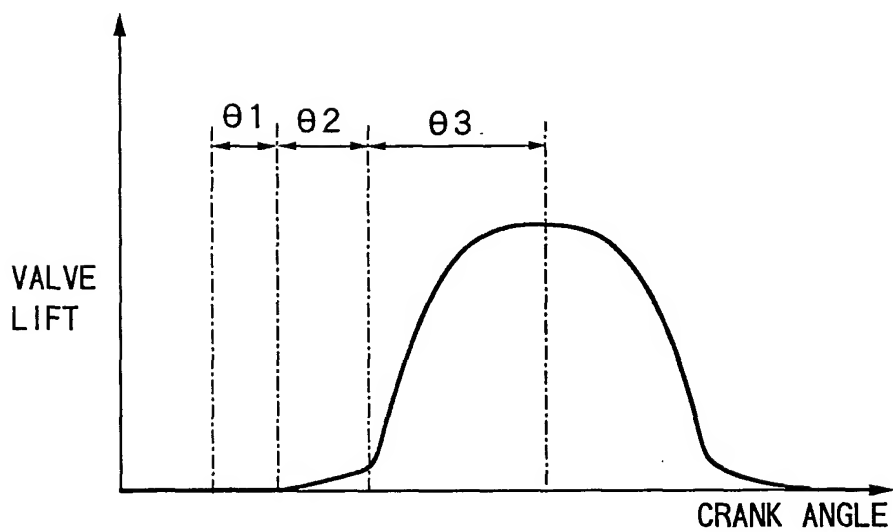
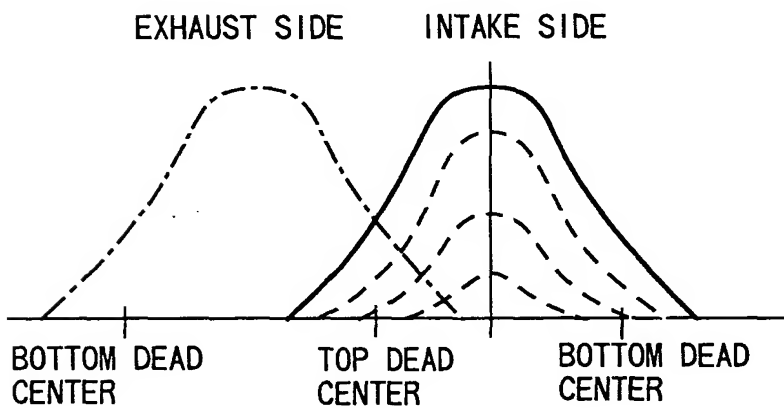


FIG.9



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FIG.10

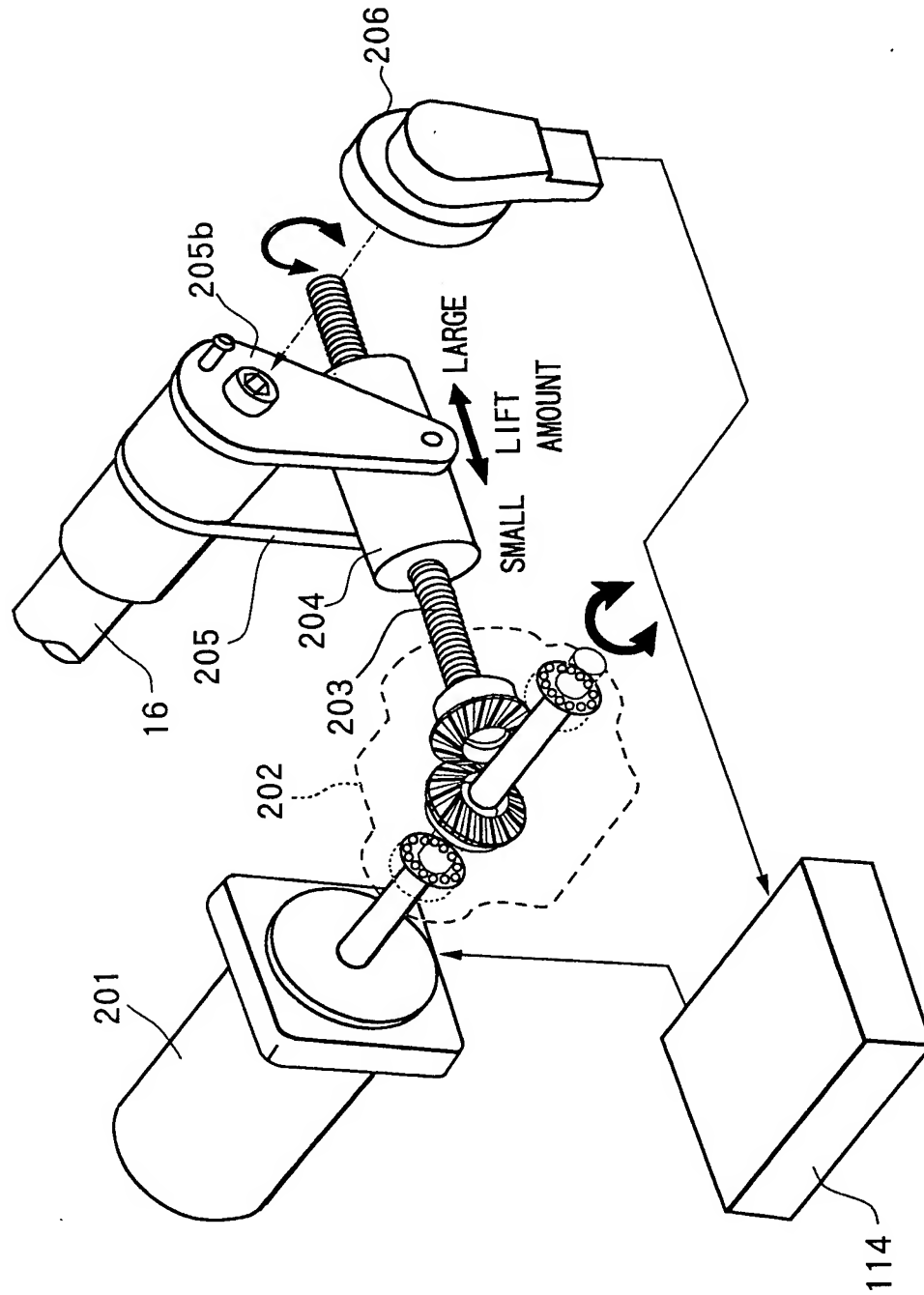


FIG. 11

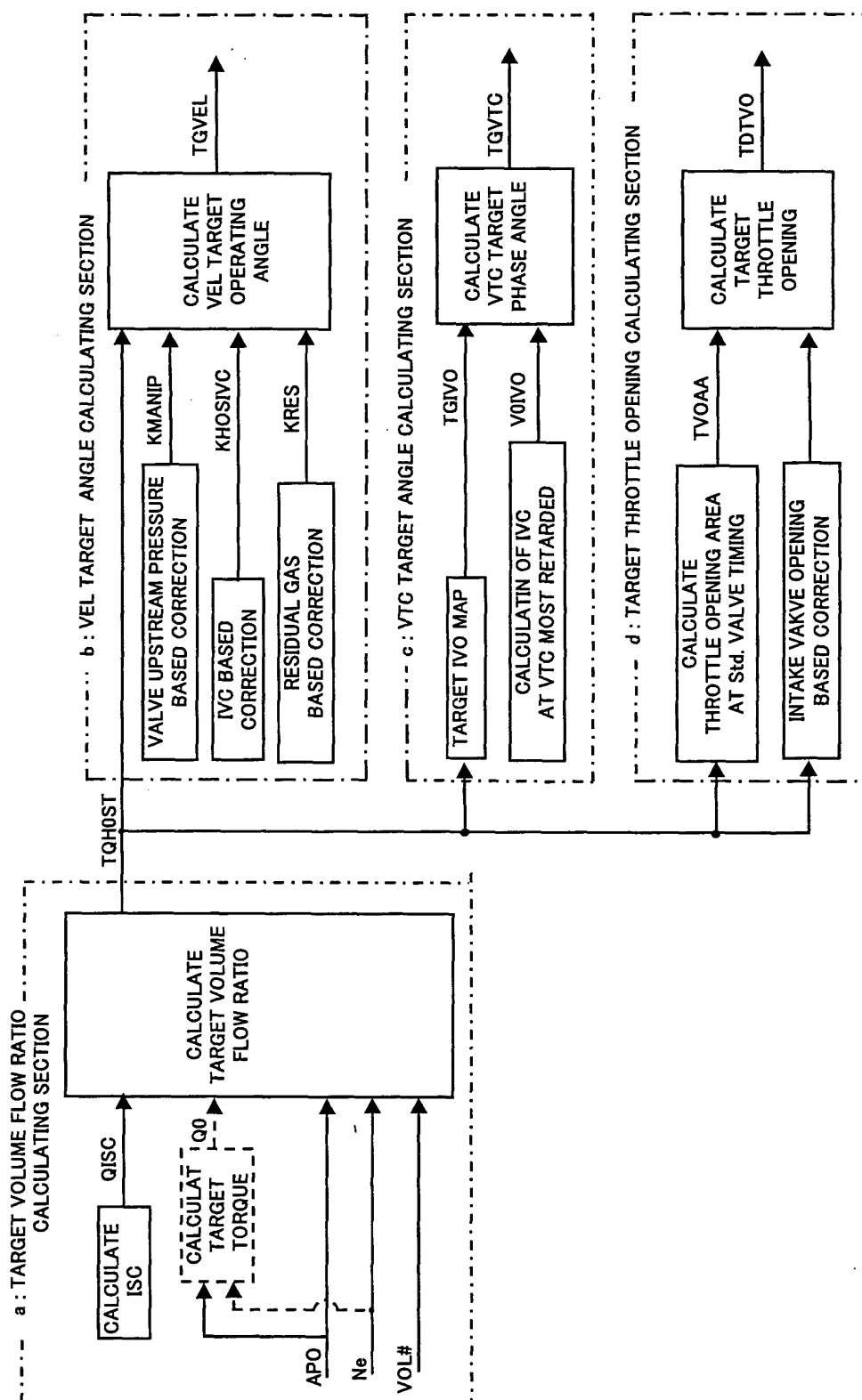
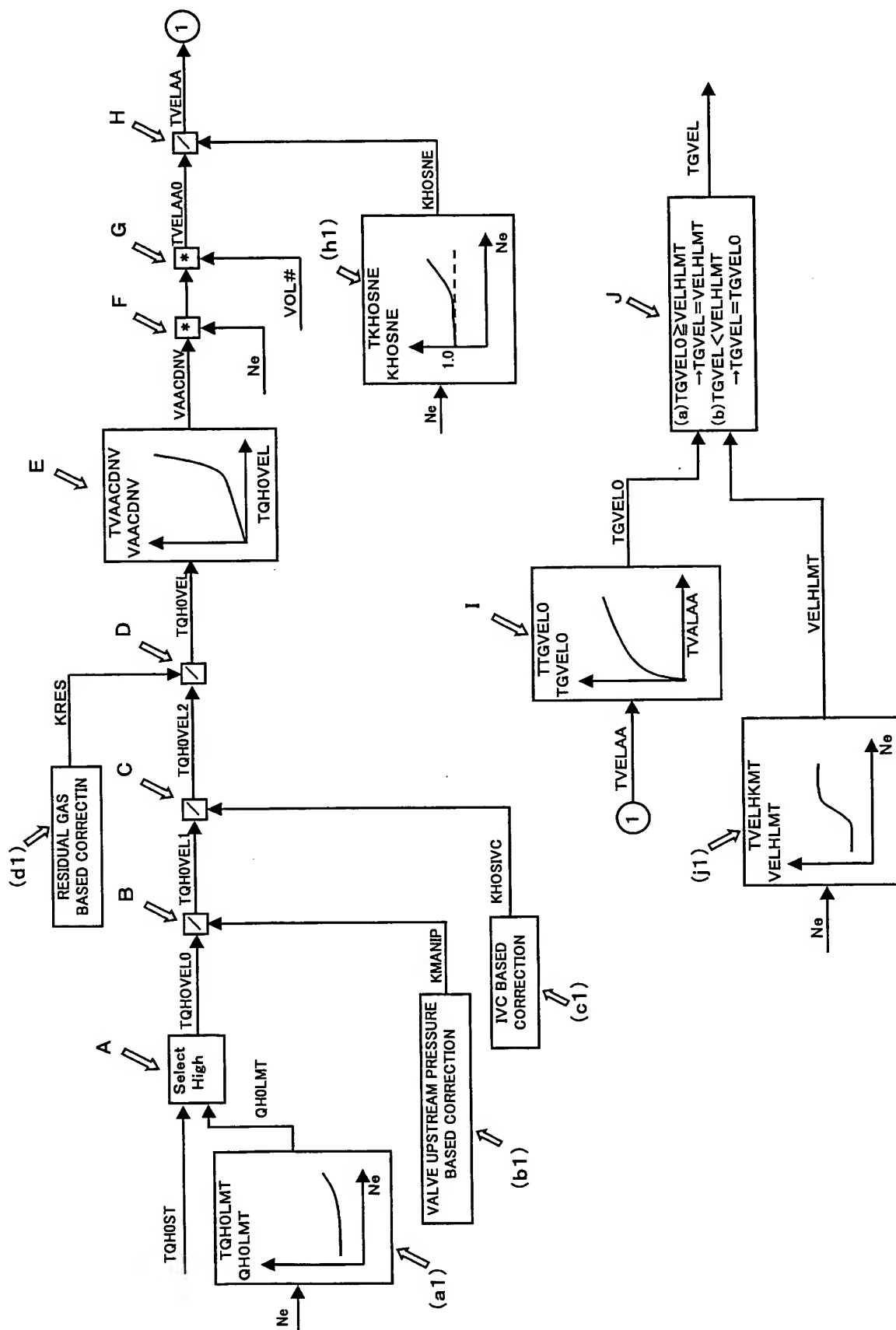


FIG.12

(b-1) SETTING OF VEL TARGET OPERATING ANGLE "TGVEL"



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FIG.13

(b-2) SETTING OF VALVE UPSTREAM PRESSURE BASED CORRECTION VALUE "KMANIP"

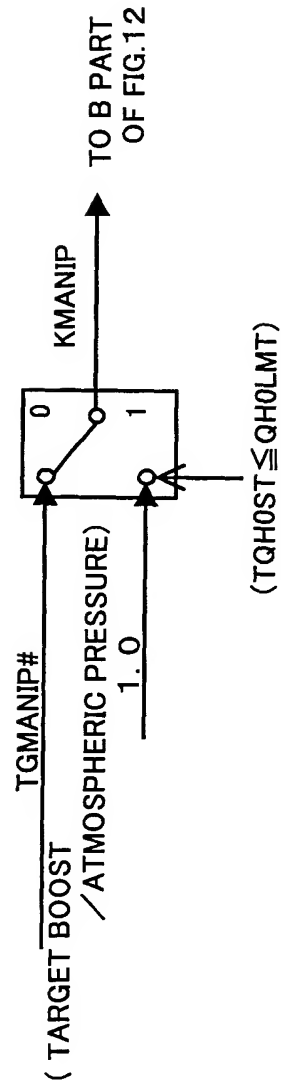
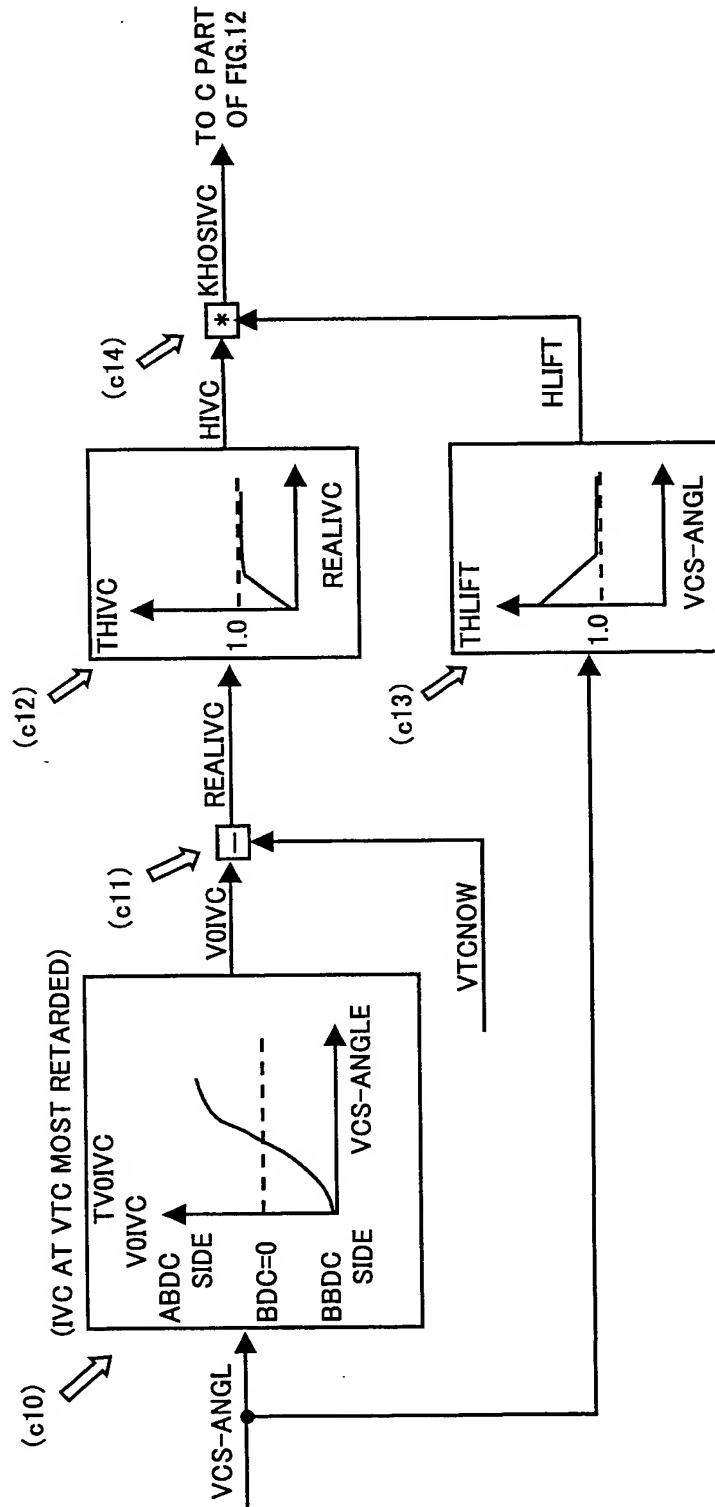


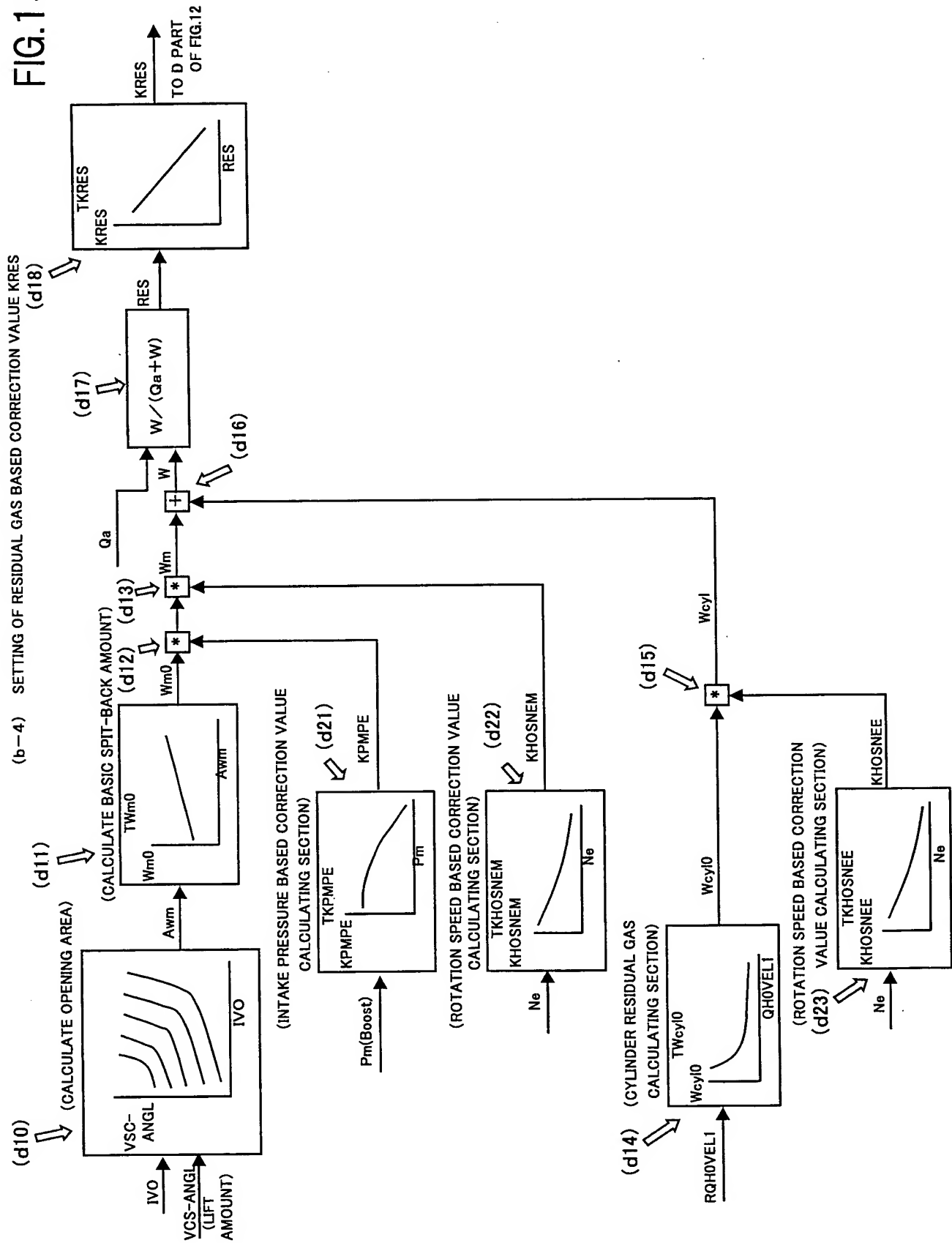
FIG. 14

(b--3) CALCULATION OF VALVE TIMING BASED CORRECTION VALUE "KHOSIVC"



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FIG.15



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FIG.16

CHANGE IN SPIT-BACK GAS AMOUNT W_m
DUE TO ROTATION SPEED N_e

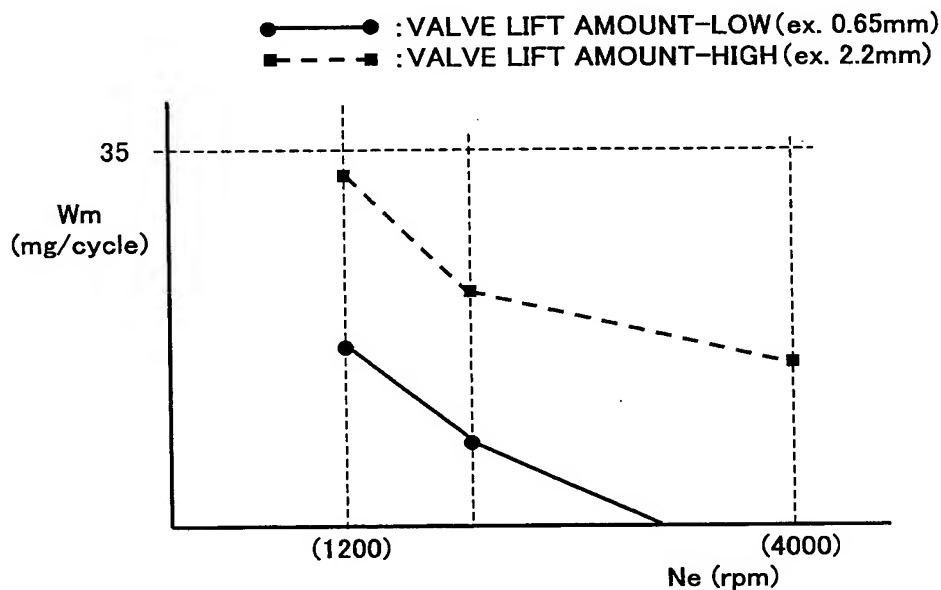


FIG.17

CHANGE IN BASIC RESIDUAL GAS AMOUNT W_{cyl}
DUE TO ROTATION SPEED N_e

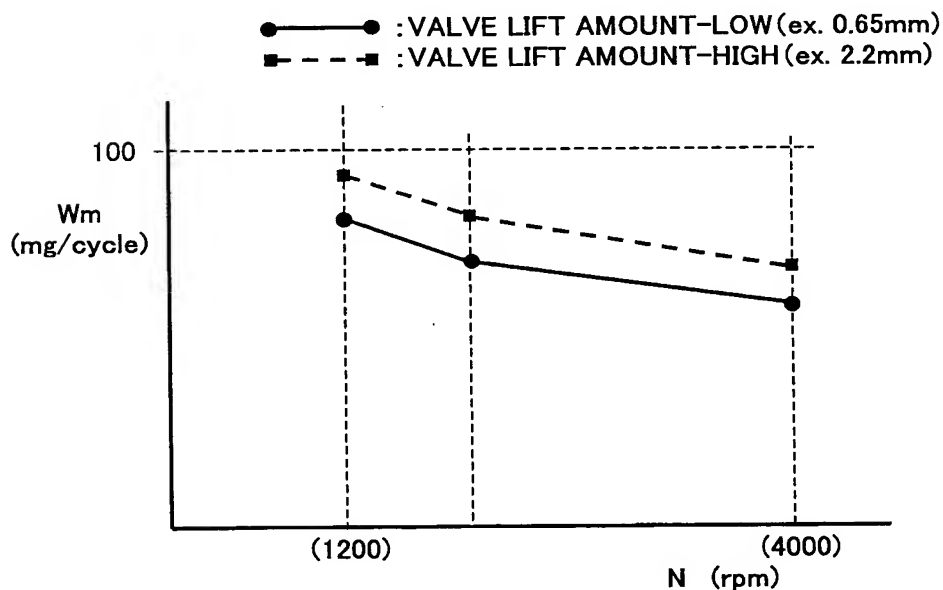


FIG.18

(c) SETTING OF VTC TARGET (PHASE) ANGLE "TGVTC"

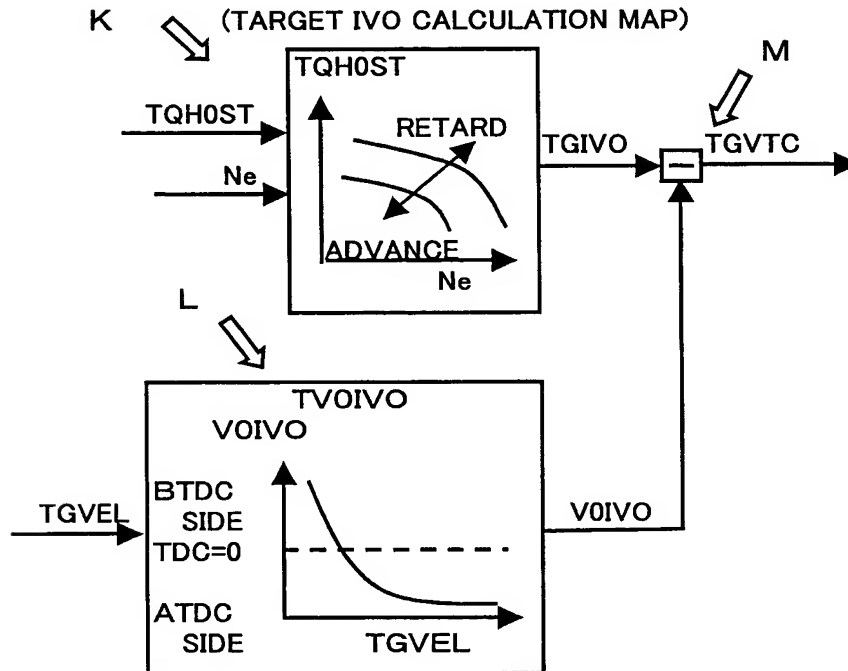


FIG.19

(d-1) SETTING OF TARGET THROTTLE OPENING "TDTVO"

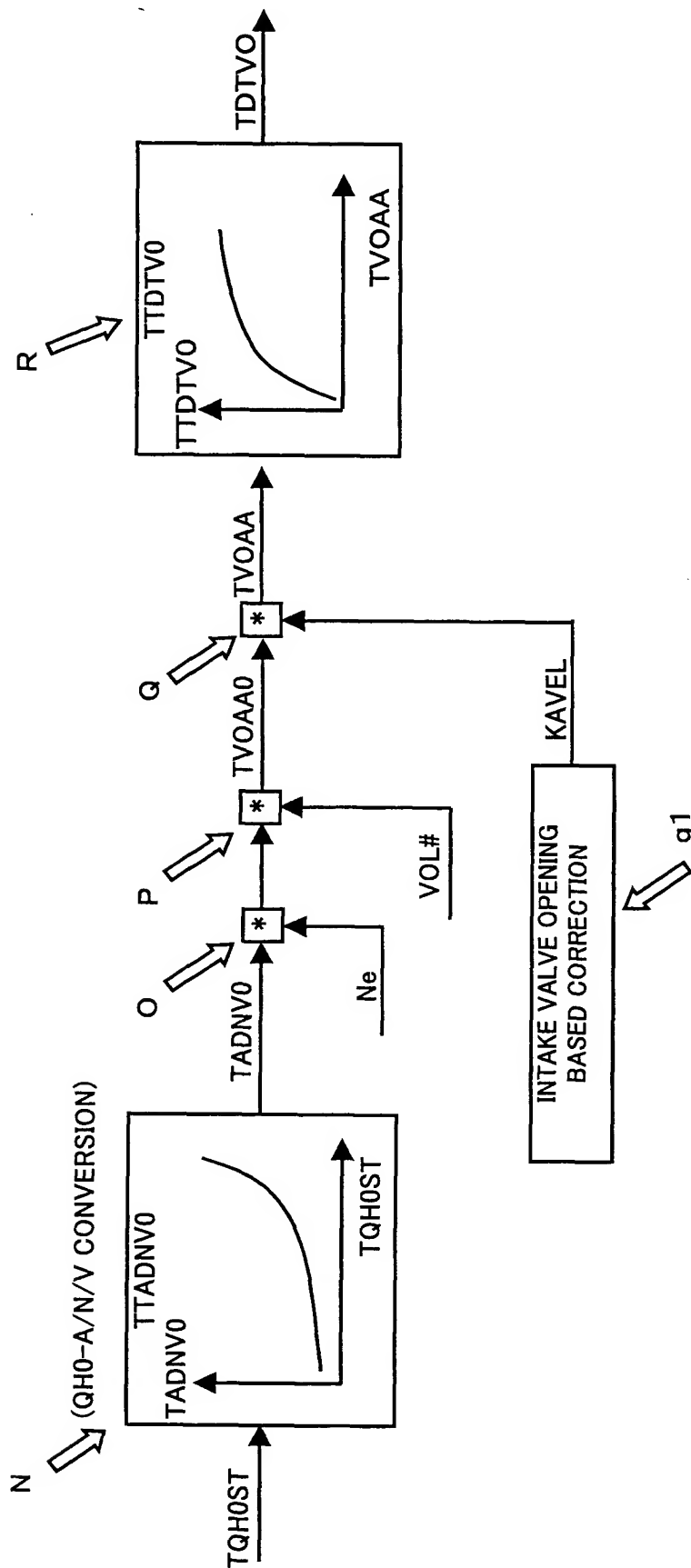


FIG.20

(d-2) CALCULATION OF INTAKE VALVE OPENING BASED CORRECTION VALUE "KAVEL"

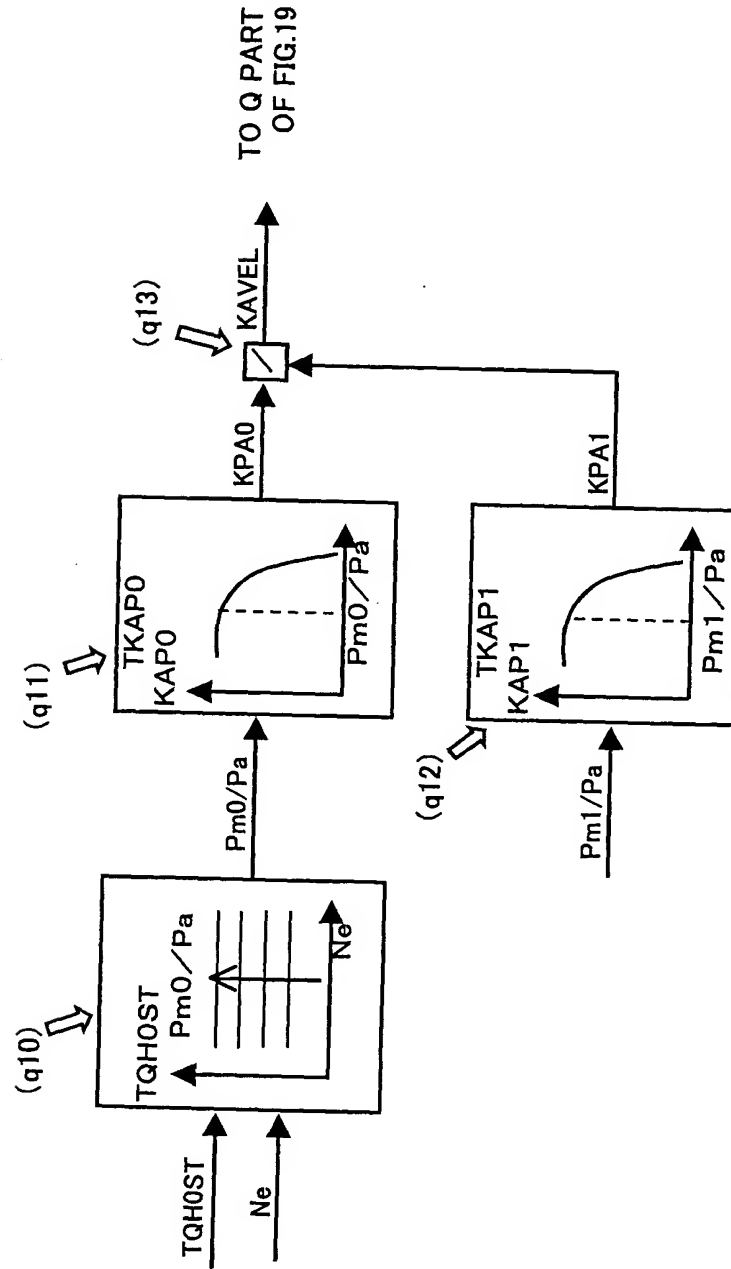


FIG.21

(d-3) CALCULATION OF PRESSURE RATIO(P_{m1}/P_a)
 AT THE TIME WHEN VEL OPERATES

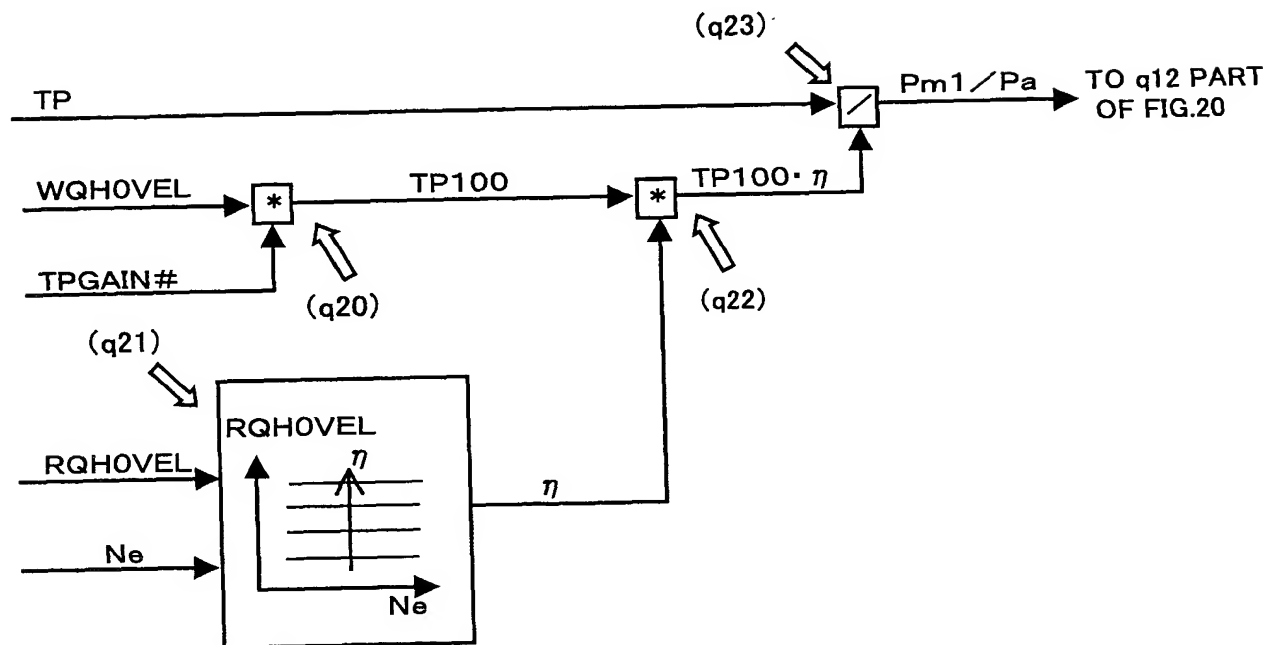


FIG.22

(d-4) CALCULATION OF RATIO "WQH0VEL", "RQH0VEL" OF VOLUME FLOW PASSED THROUGH INTAKE VALVE

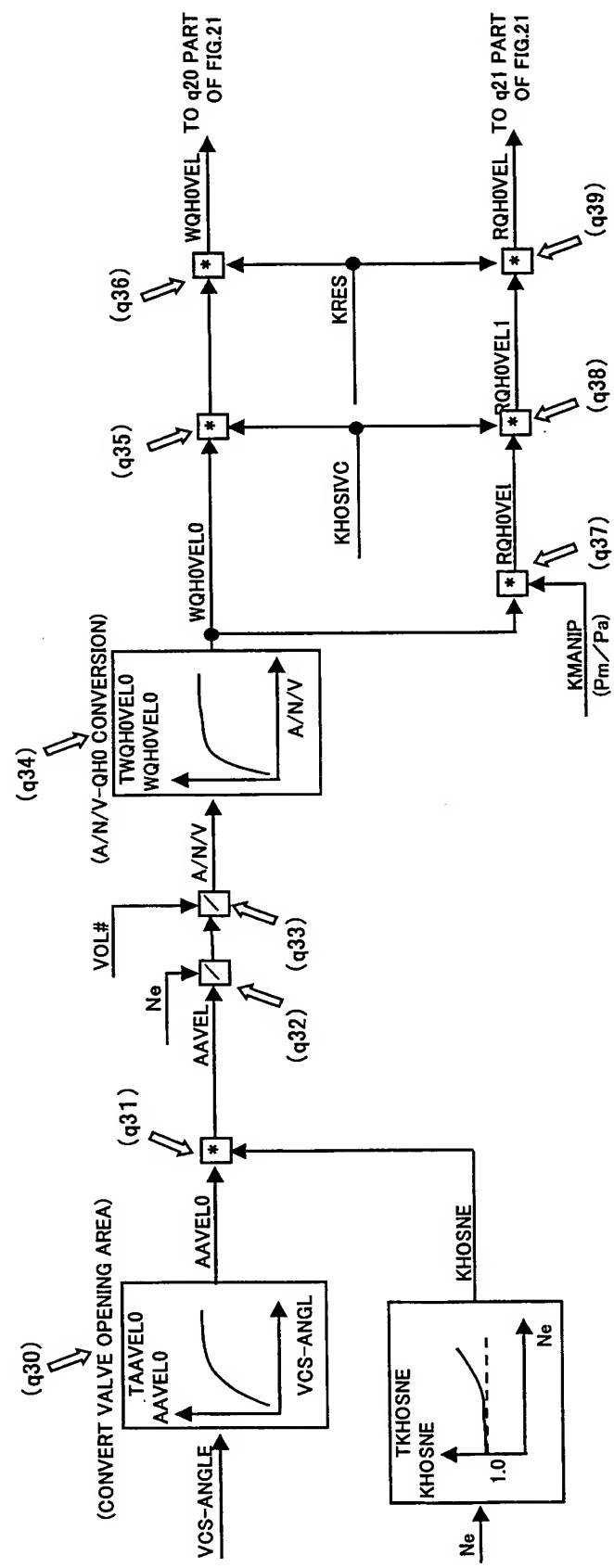
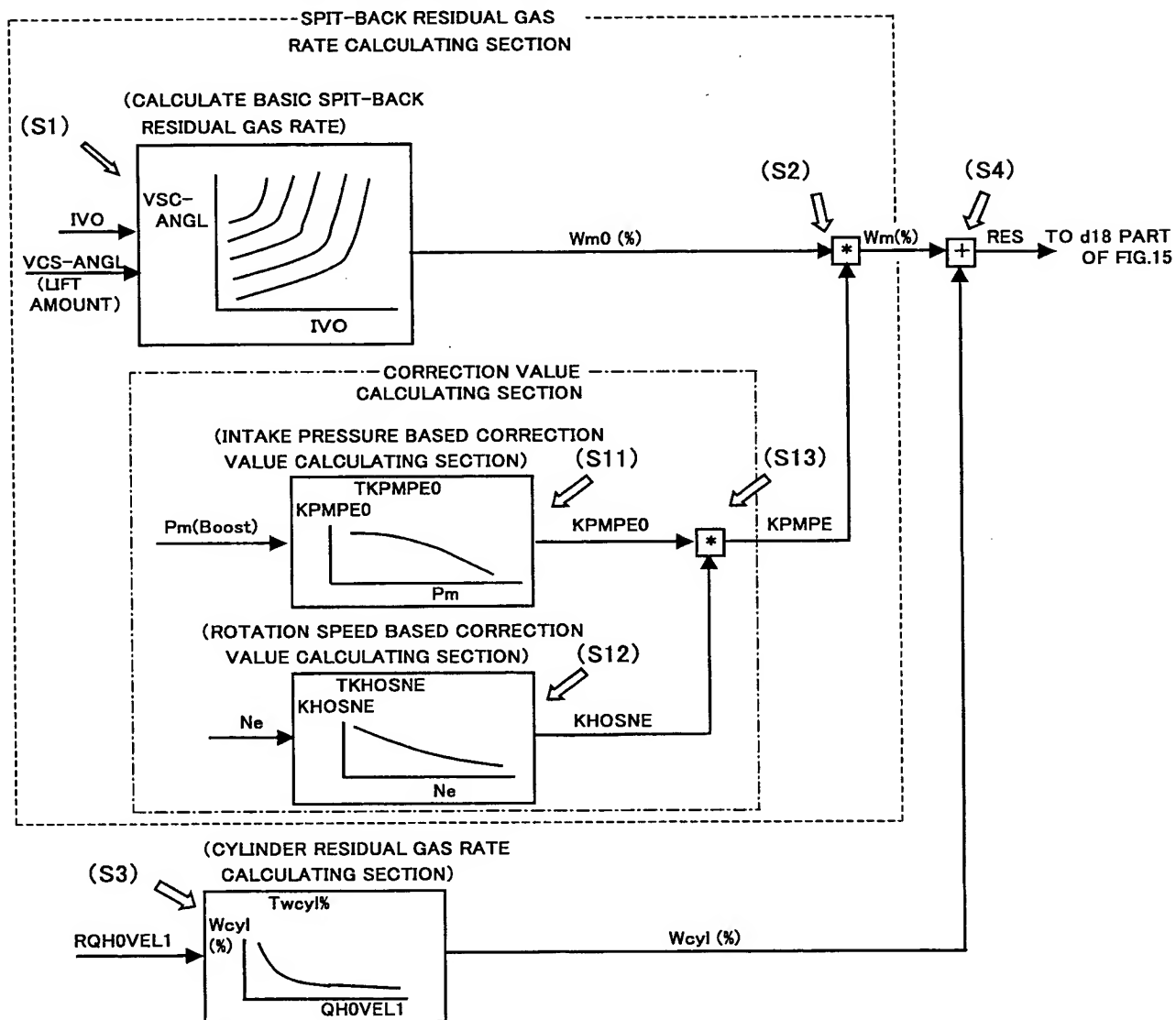


FIG.23

CALCULATION OF RESIDUAL GAS RATE RES - 2



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FIG.24

CALCULATION OF RESIDUAL GAS RATE RES - 3

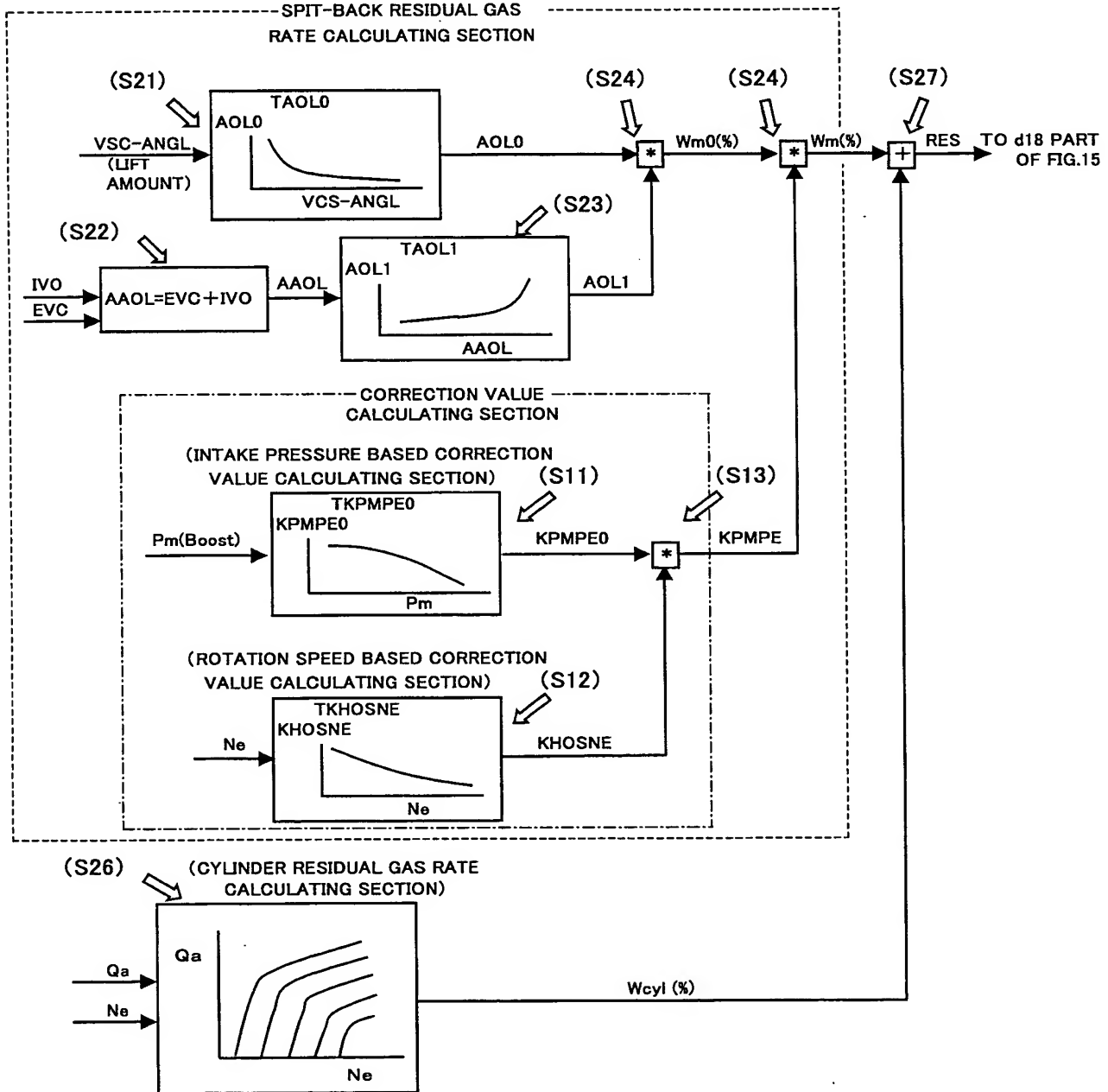


FIG.25

CALCULATION OF RESIDUAL GAS RATE RES - 4

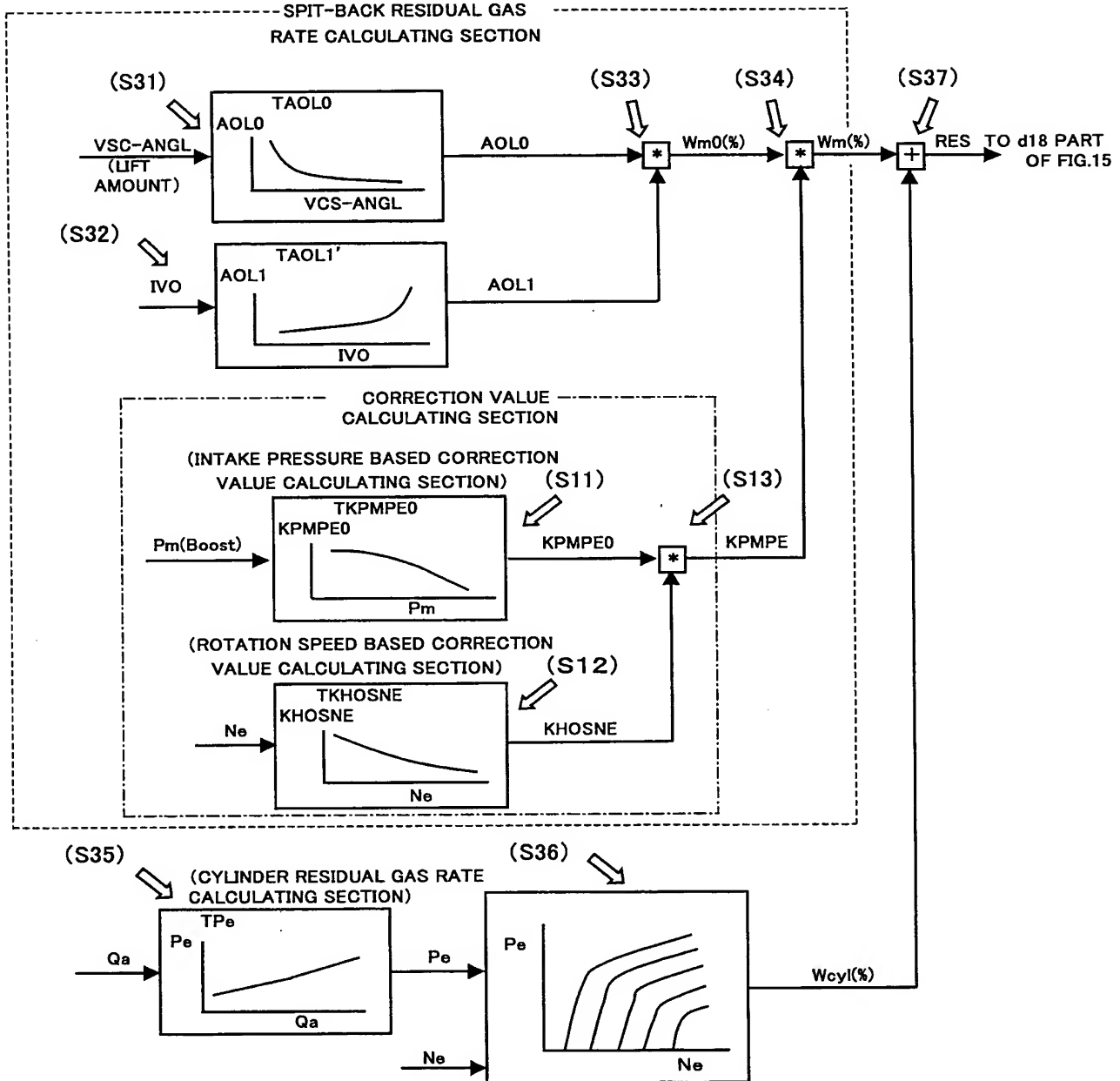


FIG.26

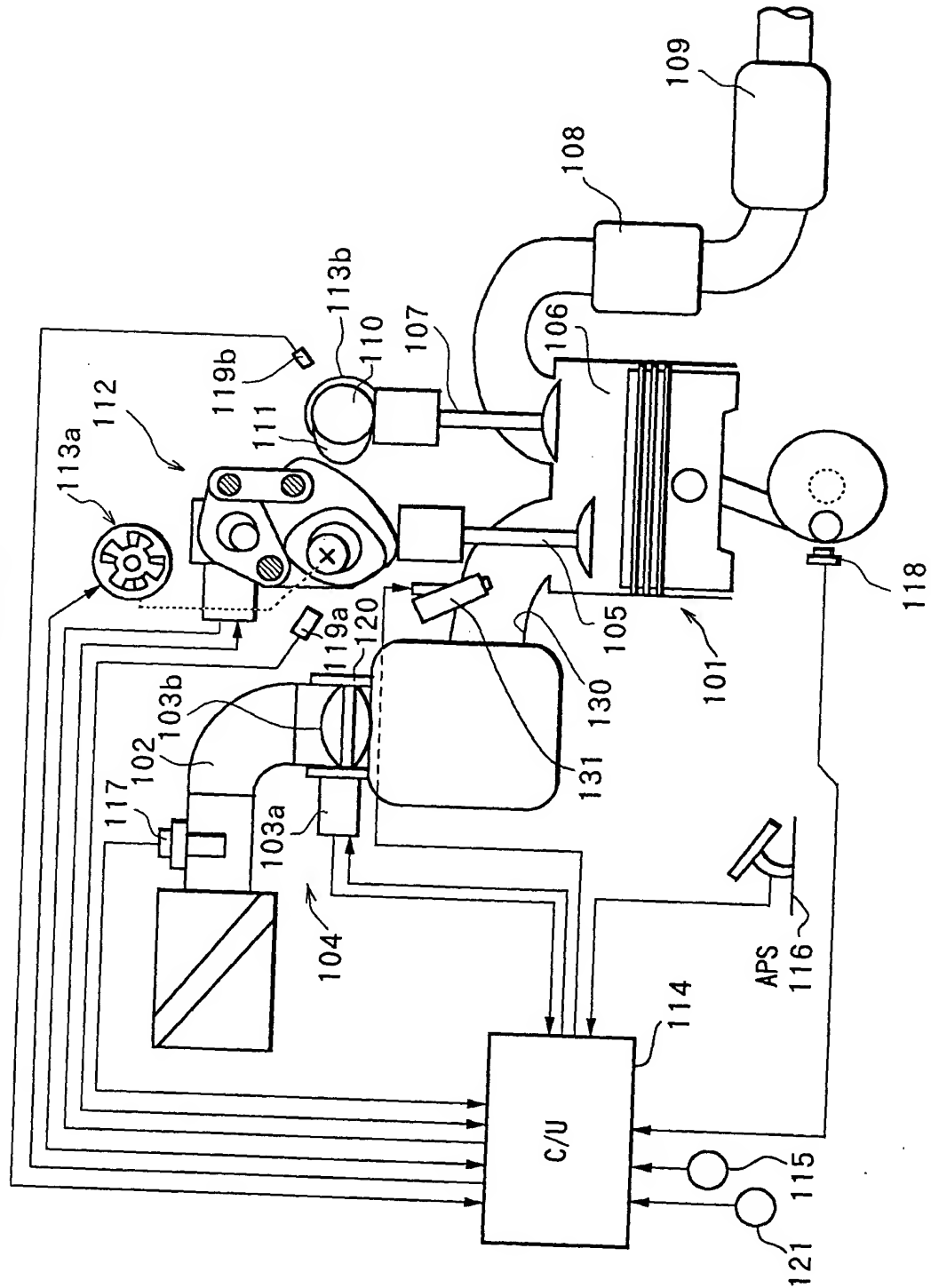


FIG. 27

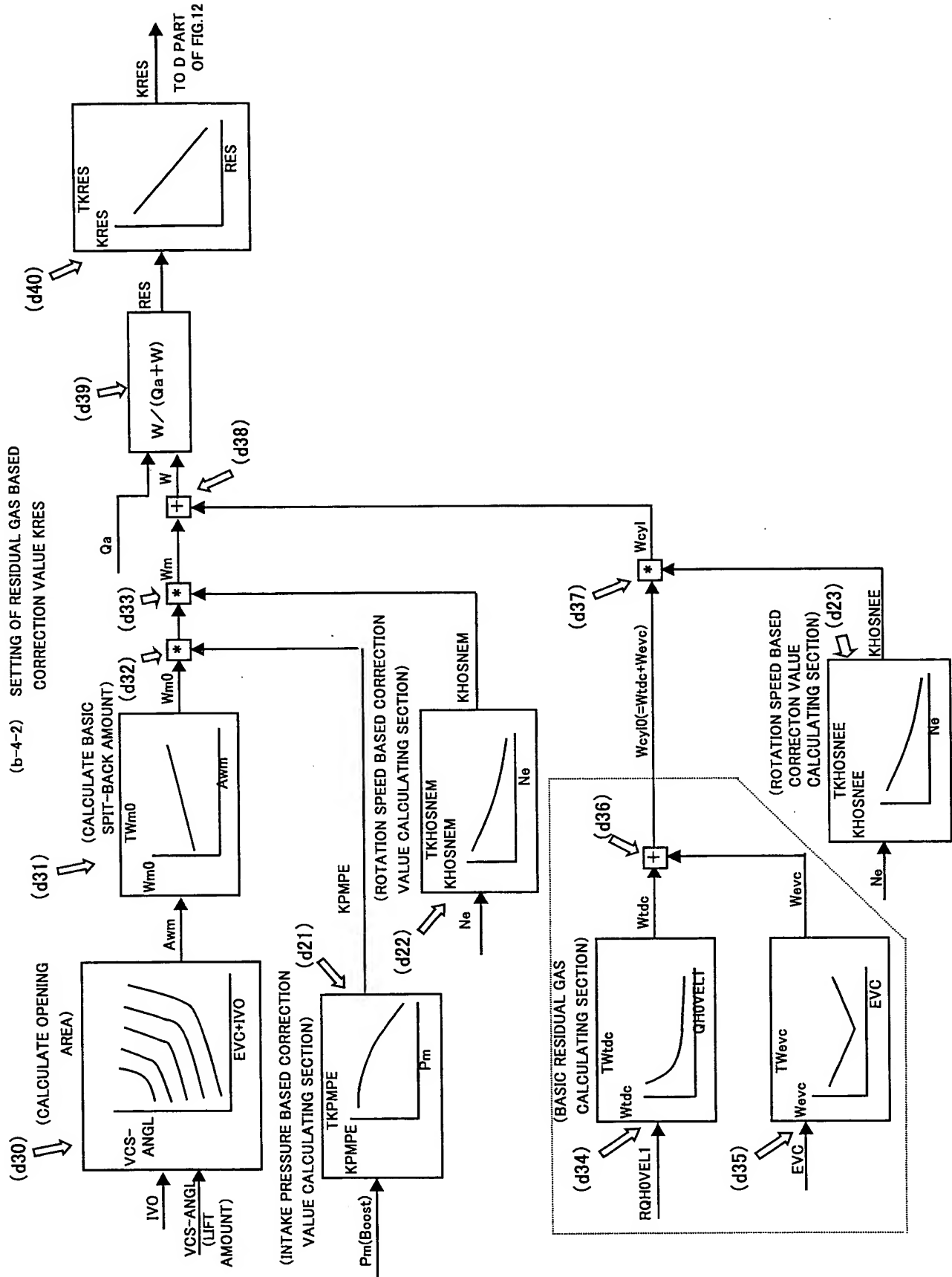


FIG.28

(c) SETTING OF VTC TARGET OPERATING ANGLE

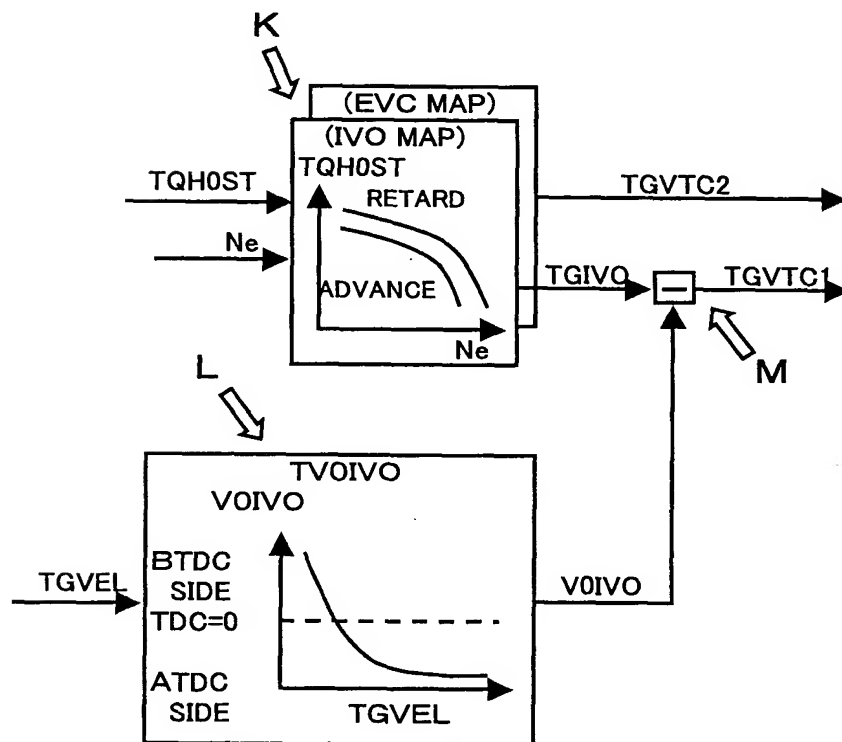
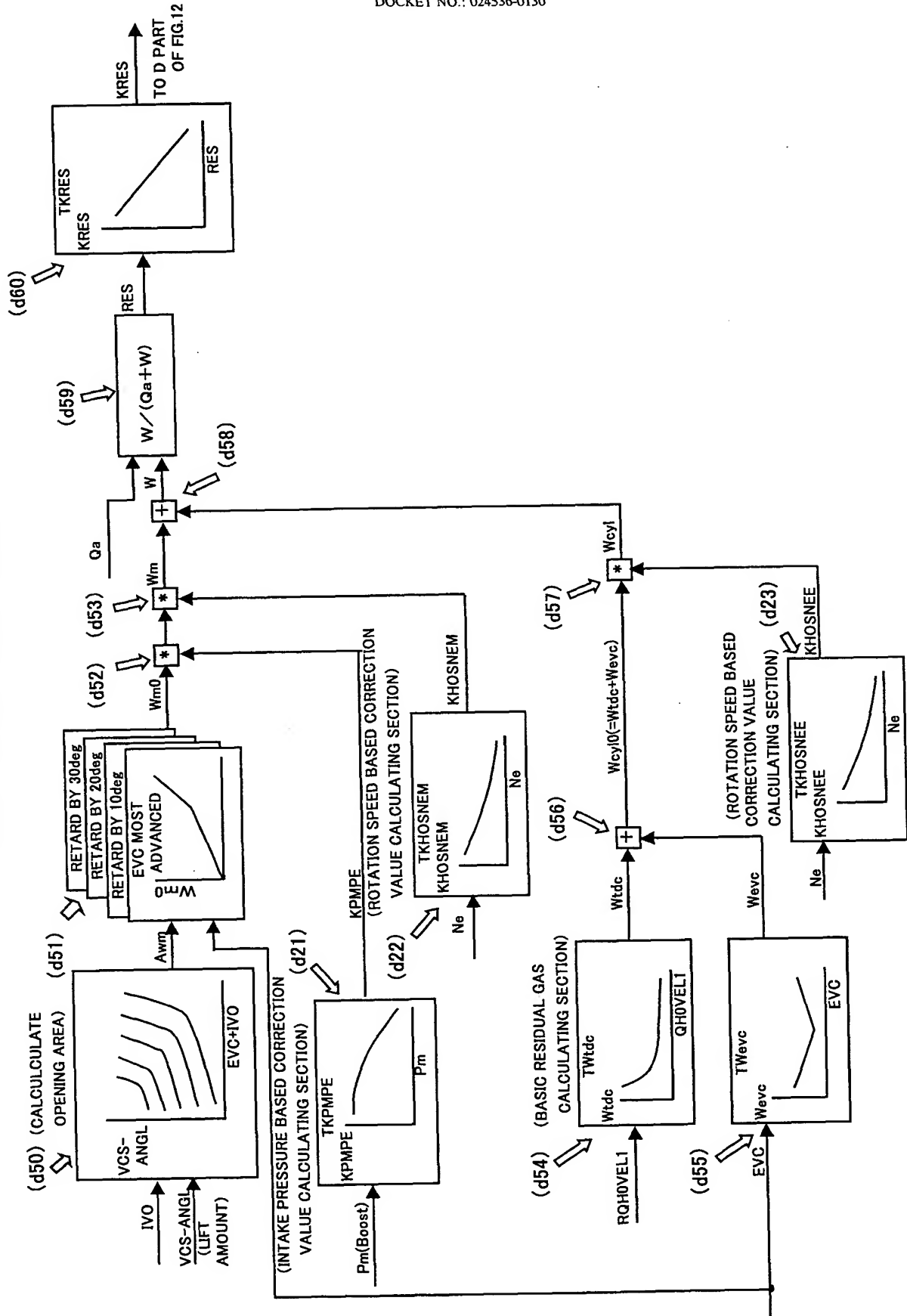


FIG.29

(b-4-3(1)) SETTING OF RESIDUAL GAS BASED CORRECTION VALUE KRES



(b-4) SETTING OF RESIDUAL GAS BASED CORRECTION VALUE KRES

